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RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/300,482DATE: 05/10/1999  
TIME: 14:57:19

Input Set: I300482.RAW

This Raw Listing contains the General Information  
Section and up to first 5 pages.

1 <110> APPLICANT: Cheikh, Nordine  
2 Liu, Jingdong  
3 Peschke, Virginia M.  
4 <120> TITLE OF INVENTION: Nucleic Acid Molecules And Other Molecules Associated Wit  
5 Phosphogluconate Pathway  
6 <130> FILE REFERENCE: 04983.0031.US01/38-21(15365)B  
7 <140> CURRENT APPLICATION NUMBER: US/09/300,482  
8 <141> CURRENT FILING DATE: 1999-04-28  
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11 <211> LENGTH: 233  
12 <212> TYPE: DNA  
13 <213> ORGANISM: Zea mays  
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17 cagattattt tatttggcat tgcctccatc agtctaccca tcagtatgcg agatgataag 180  
18 atcatattgc atgagtccat cttcacacac cggttggaca agggttatttggat 233  
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20 <211> LENGTH: 180  
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25 caggggcagc ggggagcggag caccgtcgc atcacggctcg tcggcgcctc cggcgacctc 120  
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30 <213> ORGANISM: Zea mays  
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34 gaatctccat tatggcg 137  
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36 <211> LENGTH: 263  
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38 <213> ORGANISM: Glycine max  
39 <220> FEATURE:  
40 <223> OTHER INFORMATION: unsure at all n locations  
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43 aatcgatcaa tatttggaa gccatggc tttgtatgcac tttcttccca taggtgcaca 120  
44 caatatcttc tttccaaactt tcaggaaaag ccaatataa gaattganca tctacttagga 180

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W--&gt; OK

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 100 gatcttagctt cggctctgaa tcccccttag caaganangc aggaatgtg cctganactg 180  
 101 ggtcaactctc tattgtgggt cttggngctt ctgggtatct tgctaagaag aagacatttc 240  
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 112 gaatccccct agcaagagag gcagggaaatg tgccctgaaac tgggtcactc tctattgtgg 180  
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 135 gaatcctgag ctgcggatg ggcgcggccat ttggaaatt ggttggatg agcaggatg 180  
 136 ttttctgttt tgggtgatctt ctctgtgg gttatcttc cttttactat ttttatctt 240  
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 150 tcaggagctc gcccgttgc cactcgaga acacctgggt cagctactg ttggtgagct 300  
 151 taccgaccga cttgagaacg tcgtatgcct nggaaatcaa ctgcataatcg gcataactcg 360  
 152 ttccgttggtaa gaaccatttt nacaaaantt ncccgatnca ncttngcca agtacgtt 420  
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 163 cagaaggaaa cttcccggtc tacggcttcc atgaccccgc gtccttgc aagtccattc 180  
 164 agaagccacg ggtggtgatc atgctcgta aggcggcgc gccagttgac cagaccatcg 240  
 165 cgacgctcgc agctcacttg gagcagggcg actgcataatcg cgtatggggg aacgagtgg 300  
 166 acgagaacac ggagaggagg gagaaggcca tggaggagcg cggcctnctg tatcttgca 360  
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 175 tcgggtttgc tggccttgcg gtcatggggc agaaccttgc cctcaacatt gcagagaaaag 180  
 176 ggttcccat ctctgtgtac aacaggacaa cttcaaggt ggacgagacc gtgcagcgtg 240  
 177 ccaaggcaga aggaaacctt cccgtctacg gttccatga ccccgctcc tttgtgaagt 300  
 178 ccattcagaa gccacgggtg gtgatcatgc tcgtcaaggc cggcgcgcga gttgaccaga 360  
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 189 cttgcgttc atggggcaga accttgcctt caacattgc a gagaagggt tcccatctc 240  
 190 tgtgtacac aggacaaacct ccaagggttga cgagaccgtg cagcgtgcc aaggcagaagg 300  
 191 aaaccttccc gtctacggct tccatgaccc cggcgtccctt gtgaagtcca ttcagaagcc 360  
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201      tgtgtacaac aggacaacct ccaaggtgga cgagaccgtg cagcgtgcca aggcagaagg 240
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203      acgggtggtg atcatgctcg tcaaggccgg cgcgcgcaggatt gaccagacca tcgcgacgct 360
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212      cagaaccttgc ccctcaacat tgcagagaaa gggttccccca tctctgtgtca aacaggaca 180
213      accttccaagg tggacgagac cgtcgcgcgt gccaaggcag aaggaaacct tcccgatctac 240
214      ggcttccatg accccgcgcgc ctttgcgttgc tccattcaga agccacgggt ggtgatcatg 300
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224      ccttgcggtc atggggcaga accttgcctt caacattgca gagaaagggt tccccatctc 180
225      tgtgtacaac aggacaacct ccaaggtgga cgagaccgtg cagcgtgcca aggcagaagg 240
226      aaaccttccc gtctacggct tccatgaccc cgcgtccctt gtgaactcca ttcagaagcc 300
227      acgggtggtg atcatgctcg tcaaggccgg cgcgcgcaggatt gaccagacca tcgcgacgct 360
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239      cttcccgatcg acggcttccaa tgaccccgcg tccttgcgttga agtccattca gaagccacgg 360
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243  <211> LENGTH: 209
244  <212> TYPE: DNA

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.